

Thank you for purchasing **KOSO DL volt meter**, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

⚠ Notice

1. The LCD meter is apply for **DC 12V**.
2. For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
3. To avoid the short circuit, please don't pull the wire when installing. Don't break or modify the wire terminal.
4. Do not disassemble or change any parts excluding the manual description.
5. The interior examination or maintenance should be executed by our professionals.

SYMBOL NOTE:

NOTE You could get the installation details from the information behind the mark.

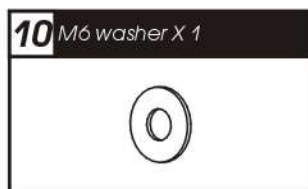
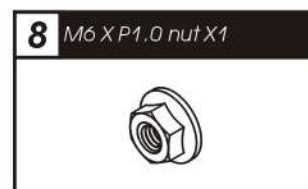
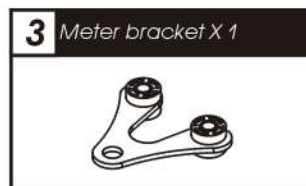
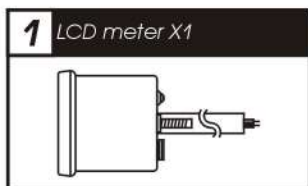
⚠ Some processes must be followed to avoid the affection caused by wrong installation.

⚠ **WARNING!** Some processes must be followed to avoid damages to yourself or the public.

⚠ **CAUTION!** Some processes must be followed to avoid the damage to the vehicle.

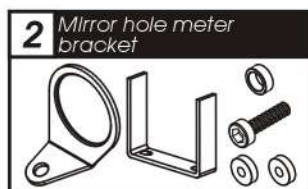
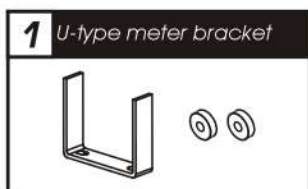


1-1 Accessory



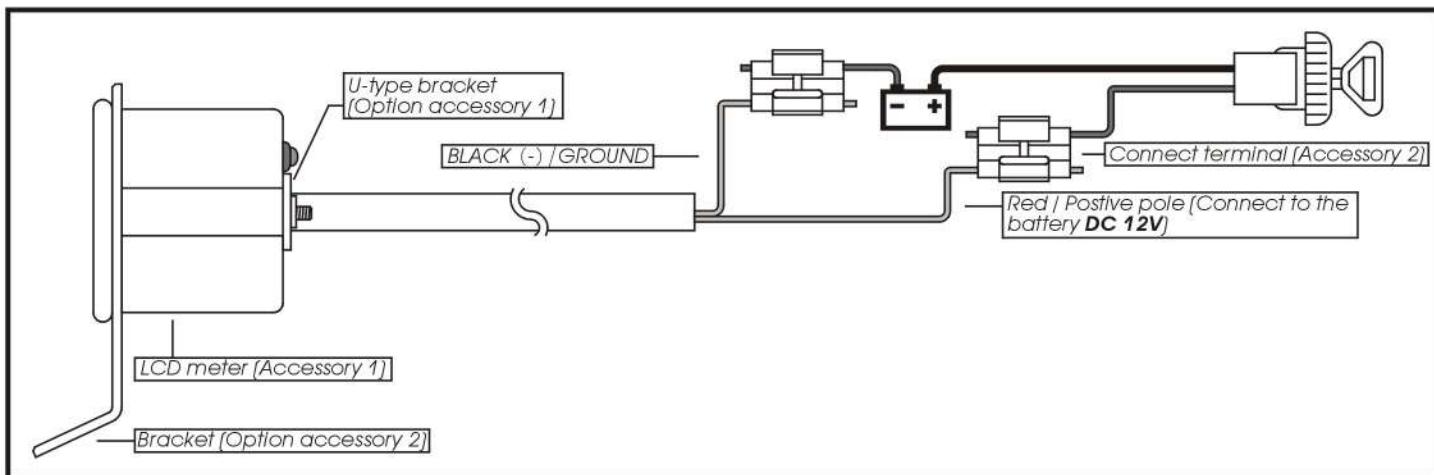
NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

1-2 Option accessory

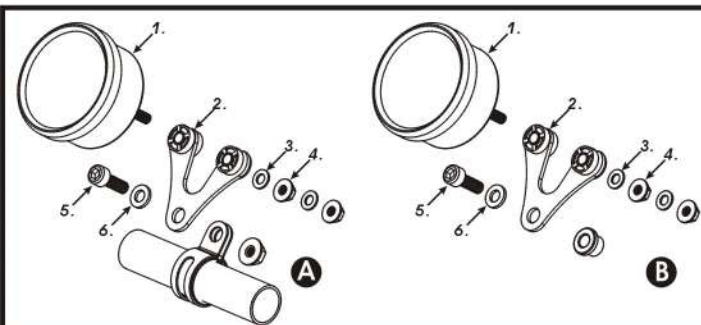


NOTE Some of the option accessories may not sell. For the details, please contact the local distributor.

2-1 Wiring installation instructions



2-2 Installation instructions



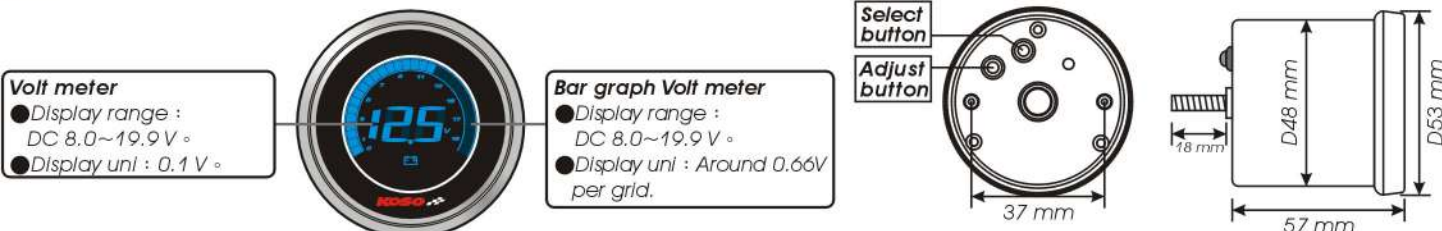
When installing, please follow the process.

1. Lcd meter (Accessory 1)
2. Meter bracket (Accessory 3)
3. M4 washer X2 (Accessory 9)
4. M4 X P0.7 nut X2 (Accessory 7)
5. M6 X18L screw (Accessory 6)
6. M6 washer (Accessory 10)

A Use the meter bracket (Accessory 3), handle bar clamp (Accessory 4), rubber (Accessory 5) and the nut to install the meter on the handle bar.

B Use the aluminum bush (Accessory 11) to install the meter on the handle bar stem.

3-1 Display instruction



Volt meter
 ● Display range :
 DC 8.0~19.9 V ◦
 ● Display unit : 0.1 V ◦

Bar graph Volt meter
 ● Display range :
 DC 8.0~19.9 V ◦
 ● Display unit : Around 0.66V
 per grid.

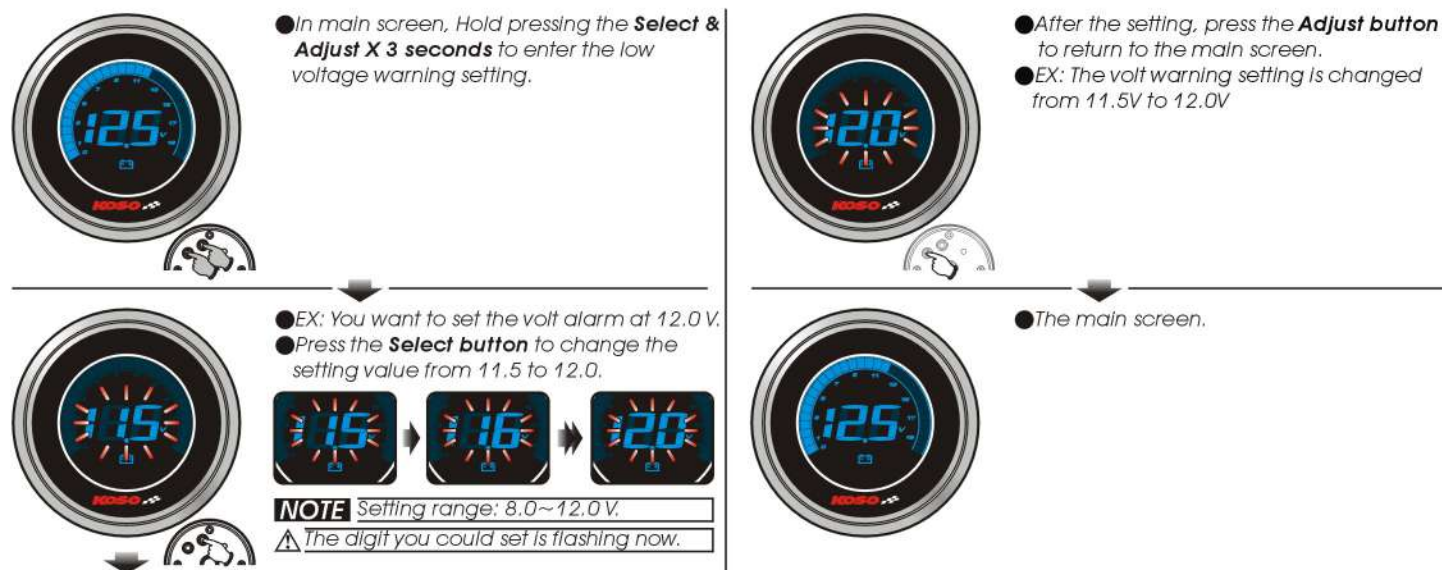
3-2 Function, setting instruction

● Volt meter	Display range : DC 8.0~19.9 V Display unit : 0.1 V
○ Bar graph volt meter	Display range : DC 8.0~19.9 V Display unit : Around 0.66V per segment.
○ The low voltage warning setting	Setting range : DC 8.0~12.0 V Setting unit : 0.1 V

● Effective voltage	DC12V
● Effective temperature range	-10~+60°C
● Meter standard	JIS D 0203 S2
● Meter size	D48 X 52.8 mm
● Meter weight	Around 117 g

NOTE Design and specification are subject to change without notice!

4-1 Function setting instruction



5-1 Trouble shooting

The following situation do not indicate malfunction of the meter. Please check the following before taking it in for repair.

Trouble	Check Item	Trouble	Check Item
The meter doesn't work when the power is on.	● The power doesn't supply to the meter. → Please make sure the wiring is connected. The wiring and fuse are not broken. → The battery is broken or the battery is too old to supply enough power (DC 6V) to make the meter work.	The meter shows wrong information.	● Please check the voltage of your battery, and make sure the voltage is over DC 6V.

※If still can't solve the problems according to the steps above, please contact with distributors or us.